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May 21, 2004

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World Intellectual Property Organization
PCT Division
34, chemin des Colombettes
CH-1211 Geneva 20
SWITZERLAND

Re: Amendment of the Claims Under Article 19(1) (Rule 46)

International Application No. PCT/US03/36297
International Filing Date: November 13, 2003
Applicant: Radius International Limited Partnership
21860 West Washington Street
Grayslake, IL 60030
Agent: Richard G. Lione
Brinks Hofer Gilson & Lione
NBC Tower - Suite 3600
455 N. Cityfront Plaza Drive
Chicago, IL 60611-5599
Our Case No. 5935/87

Dear Sirs:

The Applicant, who received the International Search Report relating to the above-identified International Application transmitted on April 27, 2004, hereby files an Amendment Under Article 19(1). The Amendment is embodied in the attached pages 21 and 21A. Pages 21 and 21A contain new Claims 21-23.

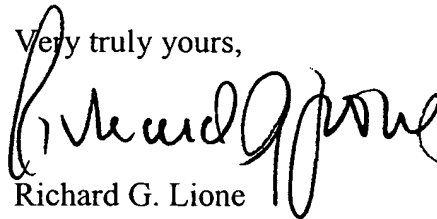
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The Applicant also files, as an attachment hereto, a brief Statement explaining the amendment and indicating any impact that amendment therein might have on the description and drawings.

Very truly yours,

A handwritten signature in black ink, appearing to read "Richard G. Lione", written in a cursive style.

Richard G. Lione

RGL:jcp

Enclosures: Amendment Under Article 19(1)
Statement

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PCT RECEIVING OFFICE

In re Application of:)
Radius International Limited)
Partnership)
)
International Application)
No. PCT/US03/36297)
)
International Filing Date:)
November 13, 2003)
)
For: CATHETER)

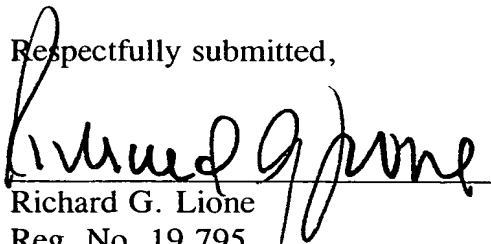
STATEMENT REGARDING NEW CLAIMS 21-23
AND THEIR SUPPORT IN THE DISCLOSURE

World Intellectual Property Organization
PCT Division
34, chemin des Colombettes
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Dear Sirs:

New Claims 21-23 are added to completely cover the invention illustrated in FIGS. 38-48 of the application. Those figures and corresponding specification description fully support the new claims. No new matter is incorporated.

Respectfully submitted,



Richard G. Lione
Reg. No. 19,795
Attorney for Applicant(s)

Date: May 21, 2004

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configuration, with said septum being thinner in the portion of said tube which is stepped;

c) a bolus having a septum therein dividing one end of said bolus into an upper passage and a lower passage;

d) said septum in said bolus overlapping said thinner portion of said septum in said catheter tube when said distal end of said tube is sealed in said bolus.

21. A catheter, comprising:

(a) a catheter tube having a generally cylindrical outer wall and containing a septum that divides the tube between a generally D-shaped first lumen and a generally D-shaped second lumen, said tube having a proximal end and a distal end;

(b) said second lumen extending to an opening at said distal end of said tube;

(c) said first lumen extending to an opening at a predetermined distance from said distal end of said tube, said septum forming a portion of the outer wall of said tube between said first lumen opening and said second lumen opening; and

(d) a bolus tip on the distal end of said tube, said bolus tip including an attachment section fastened to said septum where it comprises an outer wall and having a rear face defining a ramp including a surface inclined at an angle to said septum;

(e) said ramp extending rearwardly to an intersection with said lumen;

(f) said bolus forming at least a portion of a first port in the side of said catheter communicating with said first lumen opening; and

(g) said bolus forming at least a portion of a second port in said catheter communicating with said second lumen opening.

22. A catheter, comprising:

- a) a catheter tube formed of resilient plastic, said tube having a distal end and containing a first lumen and a second lumen separated by a septum;
- b) said distal end of said tube being formed so that said second lumen and said septum extend beyond said first lumen for a predetermined distance whereby said septum forms a substantially flat outer wall of said tube for said predetermined distance;
- c) a bolus molded of resilient plastic and connected to said distal end of said tube, said bolus forming at least a portion of each of a first port extending radially of said catheter and communicating with said first lumen and a second port communicating with said second lumen;
- d) said septum, where it forms said outer wall of said tube, underlying at least a portion of said first port.

23. The catheter of Claim 22 further characterized in that:

- a) said catheter tube including a generally cylindrical wall containing said lumens, a portion of said cylindrical wall adjacent said distal end of said catheter being removed to expose said septum and create said substantially flat outer wall.